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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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1 [VTun](#)

Ryan Breen

 August 2003 **Linux Journal**, Volume 2003 Issue 112

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [html\(25.27 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Need to make a secure connection from home? Set up a simple virtual private network?

2 [Operating systems security: Attestation-based policy enforcement for remote access](#)



Reiner Sailer, Trent Jaeger, Xiaolan Zhang, Leendert van Doorn

 October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**
Publisher: ACM Press

 Full text available: [pdf\(261.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Intranet access has become an essential function for corporate users. At the same time, corporation's security administrators have little ability to control access to corporate data once it is released to remote clients. At present, no confidentiality or integrity guarantees about the remote access clients are made, so it is possible that an attacker may have compromised a client process and is now downloading or modifying corporate data. Even though we have corporate-wide access control over ...

Keywords: remote access, security management, trusted computing

3 [Security: Enhancing the security of corporate Wi-Fi networks using DAIR](#)



Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Manpreet Singh, Alec Wolman, Brian Zill

 June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**
Publisher: ACM Press

 Full text available: [pdf\(302.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a framework for monitoring enterprise wireless networks using desktop infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting rogue wireless devices (e.g., access points) attached to corporate networks, as well as for detecting Denial of Service attacks on Wi-Fi networks. Prior proposals in this area include monitoring the network via a combination of access points (APs), m ...

Keywords: 802.11, denial-of-service, rogue AP, security, wireless networks

4 Generating firewall rules with perl

Mike Diehl

March 2006 **Linux Journal**, Volume 2006 Issue 143

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A Perl alternative to those tired of tweaking firewall rules by hand.

5 A firewall configuration strategy for the protection of computer networked labs in a college setting

Dennis Guster, Charles Hall

October 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(32.54 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Policy routing for fun and profit

David Mandelstam, Nenad Corbic

May 2004 **Linux Journal**, Volume 2004 Issue 121

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.73 KB\)](#) Additional Information: [full citation](#), [abstract](#)

A bargain Net connection gets expensive over its traffic limit. Routing mastery will keep bills in check and Net performance snappy.

7 Network security laboratories using SmoothWall

Jason Kretzer, Charles E. Frank

October 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(186.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Smooth Wall Express [12] is a free GPL firewall. It uses iptables [20] for firewall rules and Snort [14] as an intrusion detection system (IDS). This paper describes the installation of Smooth Wall. It presents sample SmoothWall laboratory exercises for teaching network security using iptables and Snort.

8 Smart wireless association: Improved access point selection



Anthony J. Nicholson, Yatin Chawathe, Mike Y. Chen, Brian D. Noble, David Wetherall
June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  [pdf\(451.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents Virgil, an automatic access point discovery and selection system. Unlike existing systems that select access points based entirely on received signal strength, Virgil scans for all available APs at a location, quickly associates to each, and runs a battery of tests to estimate the quality of each AP's connection to the Internet. Virgil also probes for blocked or redirected ports, to guide AP selection in favor of preserving application services that are currently in use. Resu ...

Keywords: 802.11, access point selection, opportunistic connectivity, public networks,

wireless networking

9 Paranoid penguin: Linux VPN technologies

Mick Bauer

February 2005 **Linux Journal**, Volume 2005 Issue 130

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(20.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


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10 Review: Snapgear lite: an inexpensive home office/small office firewall and VPN client

Alan Zeichick

April 2002 **Linux Journal**, Volume 2002 Issue 96

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(11.74 KB\)](#) Additional Information: [full citation](#), [index terms](#)

11 Firmato: A novel firewall management toolkit



Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(917.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years packet-filtering firewalls have seen some impressive technological advances (e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security *management* technology is lacking. In this paper we present *Firmato*, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

12 Moreton Bay PoPToP/NetTEL

Jon Valesh

May 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(17.64 KB\)](#) Additional Information: [full citation](#), [index terms](#)

13 Paranoid penguin: an introduction to FreeS/WAN, Part II

Mick Bauer

February 2003 **Linux Journal**, Volume 2003 Issue 106

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(17.08 KB\)](#) Additional Information: [full citation](#), [index terms](#)

14 Best papers from WMASH 2004: Secure universal mobility for wireless Internet

Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro



Katsube, Yoshihiro Ohba, Henning Schulzrinne
July 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9
Issue 3

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802.11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementation ...

15 Secure virtual private networks: the future of data communications

Eli Herscovitz

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(230.05 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Internet is an almost ideal means for information retrieval and exchange. It is cost-effective, easy to use and easily accessible. However, it can also be susceptible to devious practices such as data tempering, eavesdropping and theft. This paper analyses secure virtual private networks ∥VPNs∥ and their use in countering the problems of the Internet. Copyright © 1999 John Wiley & Sons, Ltd.

16 Mobility, roaming, and handoff: Secure universal mobility for wireless internet



Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro Katsube, Yoshihiro Ohba, Henning Schulzrinne

October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802.11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementat ...

Keywords: 802.11, handoff, hot spot, mobile IP, mobility, security

17 Network pointers



Christian Tschudin, Richard Gold

January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(270.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet architecture can be characterized as having a rather coarse grained and imperative style of network packet handling: confronted with an IP packet and its source and destination addresses, the infrastructure almost blindly and unalterably executes hundreds of resolution, routing and forwarding decisions. There are numerous attempts that try to "extend" the Internet in order to either reduce the immediate impact an arbitrary packet can have (e.g., NAT), or to insert diversions from th ...

18 Securing wireless applications: ESCORT: a decentralized and localized access

control system for mobile wireless access to secured domains

Jiejun Kong, Shirshanka Das, Edward Tsai, Mario Gerla

September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**

Publisher: ACM Press

Full text available:  [pdf\(401.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work we design and implement ESCORT, a *backward compatible, efficient, and secure* access control system, to facilitate mobile wireless access to secured wireless LANs. In mobile environments, a mobile guest may frequently roam into foreign domains while demanding critical network services. ESCORT provides instant yet secure access to the mobile guest based on the concept of "escort", which refers to a special network object with four distinct properties: (1) T ...

Keywords: decentralized access control, identity privacy, location privacy, mobile privacy, wireless security

19 E-commerce: Assessing the scalability of component-based frameworks: the



CADENUS case study

S. D'Antonio, M. Esposito, S. P. Romano, G. Ventre

December 2004 **ACM SIGMETRICS Performance Evaluation Review**, Volume 32 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes an approach to scalability analysis of component-based systems. A theoretical model of the orchestrated behavior of a system's components is developed and potential bottlenecks are identified. The model is derived by performing an analysis of the average number of messages that each involved entity has to deal with, i.e. receive, elaborate and possibly forward. By appropriately setting the various model parameters, it is possible to evaluate a system's behavior in a number of ...

Keywords: mediation, network protocols, probability theory, queuing networks, scalability

20 Level set and PDE methods for computer graphics



 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

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